

1316 SKF Weight / LBS 9.279

170x80x39mm Self aligning ball bearings

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| Bearing number | 1316 |
| Size (mm) | 170x80x39 |
| Brand | SKF |
| Bore Diameter (mm) | 170 |
| Outer Diameter (mm) | 80 |
| Width (mm) | 39 |
| d | 80 mm |
| D | 170 mm |
| B | 39 mm |
| d ₁ | 110 mm |
| D ₁ | 144.4 mm |
| r _{1,2} – min. | 2.1 mm |
| d _a – min. | 92 mm |
| D _a – max. | 158 mm |
| r _a – max. | 2 mm |
| Basic dynamic load rating – C | 88.4 kN |
| Basic static load rating – C ₀ | 33.5 kN |
| Fatigue load limit – P _u | 1.5 kN |
| Reference speed | 7500 r/min |
| Limiting speed | 5300 r/min |
| Calculation factor – k _r | 0.045 |
| Calculation factor – e | 0.22 |

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| Calculation factor – Y ₀ | 2.8 |
| Calculation factor – Y ₁ | 2.9 |
| Calculation factor – Y ₂ | 4.5 |
| Category | Self Aligning Ball Bearings |
| BDI Inventory | 0.0 |
| Manufacturer Name | SKF |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 4.213 |
| EAN | 7316576605550 |
| Product Group – BDI | B00152 |
| Mounting Method | Shaft |
| Enclosure | Open |
| Rolling Element | Ball Bearing |
| Cage Material | Steel |
| Precision Class | ABEC 1 ISO P0 |
| Internal Clearance | C0-Medium |
| Number of Rows of Balls | Double Row |
| Other Features | Allowable Misalignment 3 Deg |
| Long Description | 80MM Bore; Shaft Mount; 170MM Outside Diameter; 39MM Inner Race Width; 39MM Outer Race Width; Open; Steel Cage; Double Row of Balls; ABEC 1 ISO P0; C0-Medium |
| Inch – Metric | Metric |
| Category – BDI | Self Aligning Ball Bearings |
| UNSPSC | 31171532 |
| Harmonized Tariff Code | 8482.10.50.68 |
| Noun | Bearing |

| Keyword String | Self Aligning |
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| Manufacturer URL | http://www.skf.com |
| Manufacturer Item Number | 1316 |
| Weight / LBS | 9.279 |
| Inner Race Width | 1.535 Inch 39 Millimeter |
| Outside Diameter | 6.693 Inch 170 Millimeter |
| Bore | 3.15 Inch 80 Millimeter |
| Outer Race Width | 1.535 Inch 39 Millimeter |
| bore diameter: | 80 mm |
| precision rating: | Not Rated |
| outside diameter: | 170 mm |
| maximum rpm: | 5300 RPM |
| overall width: | 39 mm |
| cage material: | Steel |
| bore type: | Straight |
| finish/coating: | Uncoated |
| closure type: | Open |
| outer ring width: | 39 mm |
| internal clearance: | C0 |
| fillet radius: | 2 mm |
| dynamic load capacity: | 88.4 kN |
| series: | 1300 |
| static load capacity: | 33.5 kN |
| $d_1 \approx$ | 110 mm |
| $D_1 \approx$ | 144.4 mm |
| $r_{1,2} \text{ min.}$ | 2.1 mm |
| $d_a \text{ min.}$ | 92 mm |
| $D_a \text{ max.}$ | 158 mm |

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|---|---------|
| r_a max. | 2 mm |
| Basic dynamic load rating C | 88.4 kN |
| Basic static load rating C_0 | 33.5 kN |
| Fatigue load limit P_u | 1.5 kN |
| Permissible angular misalignment α | 3 ° |
| Calculation factor k_r | 0.045 |
| Calculation factor e | 0.22 |
| Calculation factor Y_0 | 2.8 |
| Calculation factor Y_1 | 2.9 |
| Calculation factor Y_2 | 4.5 |
| Mass bearing | 4.2 kg |